What is Claimed:

1	1. An apparatus for use in a cephalostat comprising:
2	a collimator for defining the shape of an X-ray beam;
3	a soft tissue filter screen for attenuating a portion of the X-ray beam,
4	wherein the soft tissue filter screen comprises:
5	a) an anterior facial portion having a leading edge, wherein
6	the leading edge is located at the most posterior position of the anterior facial
7	portion, and
8	b) a submental-neck portion coupled to the anterior facial
9	portion and having a leading edge at a position posterior relative to the leading edge
10	of the anterior facial portion,
11	wherein the soft tissue filter screen is independently adjustable relative
12	to the collimator.
1	2. An apparatus according to claim 1, wherein the soft tissue filter
2	
	screen is L-shaped having a first leg and a second leg disposed perpendicular to one
3	another, wherein the anterior facial portion is the first leg and the submental-neck
4	portion is the second lea

3. An apparatus according to claim 1, wherein the soft tissue filter ì screen is adjustable relative to the collimator in the anterior/posterior direction. 2 4. An apparatus according to claim 1, wherein the soft tissue filter 1 screen is adjustable relative to the collimator in the superior/inferior direction. 2 5. An apparatus according to claim 1, wherein the anterior facial 1 portion and the submental-neck portion comprise a unitary component. 2 6. An apparatus according to claim 1, wherein the leading edge of the 1 anterior facial portion and the leading edge of the submental-neck portion are 2 beveled. 3 7. An apparatus according to claim 1, wherein the anterior facial 1 2 portion and the submental-neck portion are modular. 8. An apparatus according to claim 7, wherein the submental-neck 1 portion is adjustable relative to the anterior facial portion in the anterior/posterior 2 3 direction. 9. An apparatus according to claim 7, wherein the anterior facial 1 portion and the submental-neck portion are connected to one another along mated 2 3 beveled edges. 10. An apparatus according to claim 1, wherein the submental-neck 1

portion is adapted to enhance radiograph images of the neck contour of a patient.

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1	 An apparatus according to claim 1, wherein the soft tissue filter
2	screen is copper.
1	12. An apparatus according to claim 1, wherein the collimator
2	comprises four plates defining an opening to define the X-ray beam, wherein the
3	plates are independently adjustable relative to one another towards and away from
4	the center of the opening.
1	13. An apparatus according to claim 1, wherein the collimator
2	comprises a single frame defining an opening to define the X-ray beam.
1	14. A cephalometric radiology apparatus comprising
2	
2	a support structure;
3	an X-ray source supported by the support structure for emitting X-
4	rays;
5	a collimator supported by the support structure and positioned along
6	the path of the X-rays for defining an X-ray beam emitted from the X-ray source;
	; and the x-ray source;
7	a soft tissue filter screen for attenuating a portion of the X-ray beam
8	and mounted independently of the collimator, wherein the soft tissue filter screen
9	comprises:
-	omprises.

10	a) an anterior facial portion having a leading edge, wherei
11	the leading edge is located at the most posterior position of the anterior facial
12	portion, and
13	b) a submental-neck portion coupled to the anterior facial
14	portion and having a leading edge at a position posterior relative to the leading edge
15	of the anterior facial portion,
16	wherein the soft tissue filter screen is independently adjustable relative
17	to the collimator; and
18	an X-ray detector to collect X-rays emitted from the X-ray source.
1	15. An apparatus according to claim 14 further comprising at least
2	one positioning light to identify an optimum position of the soft tissue filter relative
3	to the head of the patient, wherein said positioning light emits a signal
4	representative of the optimum position, and a controller responsive to the signal for
5	moving the soft tissue filter screen to the optimum position.
1	16. An apparatus according to claim 15, wherein the anterior facial
2	portion and the submental-neck portion are modular and adjustable relative to one
3	another, and the signal identifies a first data point corresponding to the optimum
4	position for the leading edge of the anterior facial portion, a second data point
5	corresponding to the optimum position for the leading edge of the submental-neck

portion, and a third data point corresponding to the optimum position for intersection

of the anterior facial portion and the submental-neck portion.

1	17. An apparatus according to claim 15, wherein the at least one
2	positioning light positions the soft tissue filter screen in at least one of the
3	anterior/posterior direction and the superior/inferior direction.
1	18. An apparatus according to claim 14, wherein the soft tissue filter
2	screen is mounted between the collimator and the X-ray source.
1	19. An apparatus according to claim 14, wherein the collimator is
2	mounted between the soft tissue filter screen and the X-ray detector.
1	20. A method for imaging soft tissue and hard tissue congruently on
2	the same radiograph comprising the steps of:
3	emitting X-rays from an X-ray source;
4	positioning a collimator across the X-rays to define an X-ray beam;
5	positioning a soft tissue filter screen across the X-ray beam
6	independently of the step of positioning the collimator, to attenuate the X-rays
7	passing through a portion of the forehead, nose, lips, chin and neck of a patient,
8	wherein the soft tissue filter screen comprises:
9	a) an anterior facial portion having a leading edge, wherein
10	the leading edge is located at the most posterior position of the anterior facial
11	portion, and

12	b) a submental-neck portion coupled to the anterior facial
13	portion and having a leading edge at a position posterior relative to the leading edge
14	of the anterior facial portion; and
15	collecting the X-rays on a radiograph.
1	21. A modular soft tissue filter screen system for use with a
2	cephalostat having a collimator for defining an X-ray beam, which system comprises
3	a soft tissue filter screen for attenuating a portion of the X-ray beam,
4	wherein the soft tissue filter screen comprises:
5	a) an anterior facial portion having a leading edge, wherein
6	the leading edge is located at the most posterior position of the anterior facial
7	portion, and
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8	b) a submental-neck portion coupled to the anterior facial
9	portion and having a leading edge at a position posterior relative to the leading edge
10	of the anterior facial portion, and
11	a mounting companent cupporting the coff times. Shows
	a mounting component supporting the soft tissue filter screen and
12	adapted to be attached to the cephalostat at a position such that the soft tissue filter
13	screen is aligned within the X-ray beam.
1	22. A system according to claim 21, wherein the soft tissue filter
2	
-	screen is L-shaped having a first leg and a second leg disposed perpendicular to one

- another, wherein the anterior facial portion is the first leg and the submental-neck 3 4 portion is the second leg. 23. A system according to claim 21, wherein the soft tissue filter 1 screen is adjustable in the anterior/posterior direction relative to the collimator. 2 24. A system according to claim 21, wherein the anterior facial portion 1 and the submental-neck portion are modular. 2 25. A system according to claim 24, wherein the submental-neck 1 portion is adjustable relative to the anterior facial portion in the anterior/posterior 2 direction. 3 26. A system according to claim 24, wherein the anterior facial portion 1 and the submental-neck portion are connected to one another along mated beveled 2 edges. 3 27. A system according to claim 21, wherein the anterior facial portion 1 and the submental-neck portion comprise a unitary component. 2 28. A system according to claim 21, wherein the leading edge of the 1
- anterior facial portion and the leading edge of the submental-neck portion are beveled.
- 29. A system according to claim 21, wherein the soft tissue filter screen is adjustable relative to the collimator in a inferior/superior direction.

1	30. A system according to claim 21, wherein the submental-neck
2	portion is adapted to enhance radiographic images of the facial soft tissue inferior t
3	the mandible and the neck contour of a patient
1	31. A system according to claim 21, wherein the soft tissue filter
2	screen is copper.
1	32. A method according to claim 20 further comprising:
2	identifying an optimum position of the soft tissue filter screen; and
3	generating a signal representative the optimum position,
4	wherein the step of positioning the soft tissue filter screen comprises
5	receiving the signal and moving the soft tissue filter screen to the optimum position
6	by adjusting the soft tissue filter screen in at least one of the anterior/posterior
7	direction and the superior/inferior direction.
I	33. A method according to claim 32, wherein the anterior facial
2	portion and the submental-neck portion are modular and adjustable relative to one
3	another, and the signal identifies a first data point corresponding to the optimum
ı	position for the leading edge of the anterior facial portion, a second data point
;	corresponding to the optimum position for the leading edge of the submental-neck
,	portion, and a third data point corresponding to the optimum position for intersection

of the anterior facial portion and the submental-neck portion.

- 34. A modular soft tissue filter screen system according to claim 21
- ² further comprising a housing for the collimator, wherein the mounting component for
- the soft tissue filter screen is adapted to be attached to the housing of the collimator.